

PLUMBING ABBREVIATIONS

A/E - ARCHITECT / ENGINEER  
AD - AREA DRAIN  
AFF - ABOVE FINISH FLOOR  
AFG - ABOVE FINISH GRADE  
AG - AIR GAP  
AP - ACCESS PANEL  
AS - AUTOMATIC SPRINKLER  
ASD - ADJUSTABLE SPEED DRIVES  
ASD - AUTOMATIC SPRINKLER DRAIN  
ASHRAE - AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS  
ASME - AMERICAN SOCIETY MECHANICAL ENGINEERS  
ASPE - AMERICAN SOCIETY PLUMBING ENGINEERS  
ASR - AUTOMATIC SPRINKLER RISER  
AV - ACID VENT  
AW - ACID WASTE  
  
BFP - PRESSURE BACKFLOW PREVENTER  
BHP - BREAK HORSEPOWER  
BSP - BLACK STEEL PIPE  
BT - BATHTUB  
BTU - BRITISH THERMAL UNIT  
BTUH - BRITISH THERMAL UNIT PER HOUR

C - CELSIUS  
CGA - COMPRESSED GAS ASSOCIATION  
CI - CAST IRON  
CO - CLEANOUT  
CS - CLINICAL SINK  
CV - CONTROL VALVE

(D) - DEMOLISH AND REMOVE  
DCW - DOMESTIC COLD WATER  
DHW - DOMESTIC HOT WATER  
DHW-R - DOMESTIC HOT WATER RETURN  
DHW-S - DOMESTIC HOT WATER SUPPLY  
DI - DEIONIZED WATER  
DN - DOWN  
DOE - DEPARTMENT OF ENERGY  
DS - DOWNSPOUT  
DT - DRAIN TILE  
DW - DISHWASHER  
DWG - DRAWING  
DWH - DOMESTIC WATER HEATER  
DWR - DRINKING WATER RETURN  
DWS - DRINKING WATER SUPPLY  
DWV - DRAIN WASTE VENT

(E) - EXISTING TO REMAIN  
EL - ELEVATION  
EMCS - ENERGY MONOSERRAT AND CENTRAL SYSTEM  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
EPACT - ENERGY POLICY ACT  
ESC - ESCUTCHEON  
ESH - EMERGENCY SHOWER  
ET - EXPANSION TANK  
EWC - ELECTRIC WATER COOLER  
EWC - ELECTRIC WATER COOLER  
EWH - ELECTRIC WATER HEATER  
EWS - EYE WASH STATION  
EX - EXISTING

F - FAHRENHEIT  
FCO - FLOOR CLEANOUT  
FCW - FILTERED COLD WATER  
FD - FLOOR DRAIN  
FDC - FIRE DEPARTMENT (HOSE) CONNECTION  
FIN - FINISH  
FL - FLOOR  
FM - FLOW METER  
FOP - FUEL OIL PUMP  
FOR - FUEL OIL RETURN  
FOS - FUEL OIL SUPPLY  
FOV - FUEL OIL VENT  
FS - FLOOR SINK  
FS - FLOW SWITCH  
FU - FIXTURE UNITS

GAL - GALLON  
GCO - GRADE CLEANOUTS  
GPD - GALLONS PER DAY  
GPH - GALLONS PER HOUR  
GPM - GALLONS PER MINUTE  
GPR - GAS PRESSURE REGULATOR  
GRS - GAS REGULATOR STATION  
GT - GREASE TRAP  
GVTR - GAS VENT THROUGH ROOF  
GWH - GAS FIRED WATER HEATER

H&CW - HOT AND COLD WATER  
HB - HOSE BIBB  
HD - HUB DRAIN  
HEX - HEAT EXCHANGER  
HP - HORSEPOWER  
HS - HAND SINK  
HST - HOT WATER STORAGE TANK (DOMESTIC)  
HWB - HOT WATER BOILER  
HWCP - HOT WATER CIRCULATING PUMP  
HWP - HOT WATER PUMP  
HYD - HYDRANT

IOW - INDUSTRIAL COLD WATER  
INV - INVERT  
IPC - INTERNATIONAL PLUMBING CODE  
IRW - IRRIGATION WATER  
IW - INDIRECT WASTE  
IWH - INSTANTANEOUS WATER HEATER  
IWR - INDUSTRIAL WATER RETURN  
IWS - INDUSTRIAL WATER SUPPLY

KW - KILOWATT  
KWHr - KILOWATT-HOUR

NOTE:  
ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE INDICATED ON THE DRAWINGS.

PLUMBING PIPING SYMBOLS

--- --- --- --- ---  
EXISTING TO REMAIN  
//////////  
EXISTING TO BE REMOVED  
---DCW---DCW---  
DOMESTIC COLD WATER, COLD WATER  
---DHW---DHW---  
DOMESTIC HOT WATER, HOT WATER  
---DHW-R---DHW-R---  
DOMESTIC HOW WATER RETURN, HOT WATER RETURN  
---MA---MA---  
MEDICAL AIR  
---CA---CA---  
COMPRESSED AIR  
---MV---MV---  
MEDICAL VACUUM  
---LA---LA---  
LABORATORY AIR  
---LV---LV---  
LABORATORY VACUUM  
---IA---IA---  
INDUSTRIAL AIR  
---D---D---  
DRAIN  
---SAN---SAN---  
SANITARY SEWER  
---SS---SS---  
SANITARY SEWER (OPTIONAL)  
---SAN---SAN---  
SANITARY SEWER, BELOW GRADE  
-----  
SANITARY VENT  
---SD---SD---  
STORM WATER  
---SD---SD---  
STORM WATER, BELOW GRADE  
---DT---DT---  
PERIMETER OR UNDERSLAB DRAIN TILE  
---SCW---SCW---  
SOFTEN COLD WATER  
---FCW---FCW---  
FILTERED COLD WATER  
---ROS---ROS---  
REVERSE OSMOSIS WATER SUPPLY  
---ROR---ROR---  
REVERSE OSMOSIS WATER RETURN  
---TWS---TWS---  
TEMPERED WATER SUPPLY  
---TWR---TWR---  
TEMPERED WATER RETURN  
---NO---NO---  
NITROUS OXIDE  
---O2---O2---  
OXYGEN  
---N2---N2---  
NITROGEN  
---LPG---LPG---  
LIQUEFIED PETROLEUM (LP) GAS  
---NG---NG---  
NATURAL GAS  
---NG---NG---  
NATURAL GAS, BELOW GRADE  
---LW---LW---  
LABORATORY WASTE  
---LW---LW---  
LABORATORY WASTE BELOW GRADE  
---LWV---LWV---  
LABORATORY WASTE VENT

PLUMBING VALVE SYMBOLS

---  
BALANCING VALVE  
---  
GATE VALVE (ISOLATION VALVE)  
---  
ISOLATION VALVE WITH 3/4" HOSE ADAPTER  
---  
CHECK VALVE  
---  
ANGLE GLOBE VALVE  
---  
BUTTERFLY VALVE  
---  
BALL VALVE  
---  
MODULATING CONTROL VALVE  
---  
TWO POSITION CONTROL VALVE  
---  
THREE-WAY MODULATING CONTROL VALVE  
---  
THREE-WAY TWO POSITION CONTROL VALVE  
---  
PRESSURE REGULATING VALVE  
---  
AUTOMATIC FLOW CONTROL VALVE  
---  
PRESSURE RELIEF VALVE  
---  
MANUAL AIR VENT  
---  
TEST PLUG (PRESSURE/TEMPERATURE)  
---  
AUTOMATIC AIR VENT  
---  
BACKFLOW PREVENTER

GENERAL PLUMBING SYMBOLS

---  
DIRECTION OF PIPE PITCH (DOWN)  
---  
DIRECTION OF FLOW  
---  
ANCHOR  
---  
REDUCER OR INCREASER  
---  
ECCENTRIC REDUCER  
---  
TOP CONNECTION, 45° OR 90°  
---  
BOTTOM CONNECTION, 45° OR 90°  
---  
SIDE CONNECTION  
---  
CAPPED OUTLET  
---  
RISE OR DROP IN PIPE  
---  
UNION  
---  
PIPE UP  
---  
PIPE DOWN  
---  
POINT OF CONNECTION TO EXISTING WORK  
---  
LIMIT OF DEMOLITION  
---  
STRAINER  
---  
THERMOMETER  
---  
PRESSURE GAGE  
---  
FLOW ELEMENT  
---  
CLEAN OUT  
---  
HOSE BIB

DRAWING SYMBOLS

2  
KEY NOTE SYMBOL  
2 3  
MULTIPLE KEY NOTES APPLYING TO THE SAME ITEM  
2  
DETAIL NUMBER  
XXX  
DRAWING NUMBER WHERE DRAWN  
A  
SECTION LETTER  
XXX  
DRAWING NUMBER WHERE SHOWN  
---  
BUILDING NO. WHERE EQUIPMENT IS LOCATED.  
---  
EQUIPMENT ABBREVIATION (PUMP)  
26-P-3  
PUMP NO. 3 IN BUILDING NO. 26  
---  
TYPICAL UNIT NO.

SAN  
1  
PIPE SYSTEM  
RISER NUMBER

GENERAL NOTES

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS, PIPE SIZES AND MATERIALS, FLUID FLOW DIRECTIONS) AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK. (DO NOT SCALE DRAWINGS).
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES EVEN IF THE UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES AT THEIR OWN EXPENSE AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DAMAGES CAUSED BY A SYSTEM BEING DOWN.
3. THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION.
4. INSTALL ALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS AND THE APPLICABLE CODES, STANDARDS AND REGULATIONS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED. PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNERS EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, TEMPORARY FENCES, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REVISED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
6. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES, INDUSTRY STANDARDS AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
7. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.
8. WORK ALL DRAWINGS WITH THE PROJECT SPECIFICATIONS.
9. PIPING SHOWN ON RESPECTIVE PLANS SERVES FIXTURES AND EQUIPMENT ON THAT FLOOR UNLESS OTHERWISE NOTED.
10. PIPING RISING WITHIN A STORY IS DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DN".
11. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATIONS PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED.

PLUMBING NOTES

1. ALL PIPING MATERIALS AND COMPONENTS INCLUDING FITTINGS, PIPE, FLANGES, VALVES, ETC. SHALL BE DESIGNATED, FABRICATED AND INSTALLED PER THE APPROPRIATE SECTIONS OF THE LATEST CODES, VETERAN'S AFFAIRS PLUMBING STANDARDS AND PROJECT CONTRACT DOCUMENTS.
2. ALL SANITARY SEWERS 2" AND SMALLER SHALL SLOPE 1/4" PER FOOT (MIN), ALL SANITARY SEWERS 3" AND LARGER SHALL SLOPE 1/8" PER FOOT (MIN.) IN THE DIRECTION OF FLOW.
3. ALL HORIZONTALLY ROUTED WASTE VENTS SHALL BE INSTALLED WITH A SLOPE TO FACILITATE GRAVITY DRAINAGE TO THE WASTE SYSTEM.
4. ALL CLEANOUTS INSTALLED IN THE SEWER SYSTEM SHALL BE SIZED AS FOLLOWS:  

PIPE SIZE	SIZE OF CLEANOUT
2"	2"
2 1/2"	2 1/2"
3"	3"
4-6"	4"
5. CLEANOUTS INSTALLED IN HORIZONTAL DRAINAGE PIPING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 100'.
6. THE MAXIMUM VERTICAL DISTANCE FROM THE FIXTURE OUTLET (LAVATORY, FLOOR DRAIN ETC.) TO THE TRAP WEIR SHALL BE 24".
7. SURFACES TO BE SOLDERED SHALL BE CLEANED BRIGHT. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. SOLDER JOINTS FOR POTABLE WATER SHALL BE MADE WITH A SOLDER CONTAINING NOT MORE THAN 0.2 PERCENT LEAD.
8. UNIONS SHALL BE INSTALLED AT ALL EQUIPMENT. THE USE OF DIELECTRIC UNIONS AND FLANGES MUST BE INSTALLED IN AREAS WHERE JOINING OF DISSIMILAR METALS (ie CARBON STEEL TO COPPER OR BRONZE, ETC.) THIS IS TO FACILITATE PIPING REMOVAL AND REASSEMBLY FOR FUTURE MAINTENANCE WORK AND/OR PREVENT GALVANIC CORROSION.
9. CONTRACTOR SHALL PROPERLY BRACE, ANCHOR, AND SUPPORT ALL PIPING, VALVES ETC. IN ACCORDANCE WITH MSS SP-58.
10. PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH MSS-58.
11. ALL POTABLE WATER BRANCHES SHALL BE INSTALLED WITH ISOLATION VALVES CLOSE TO MAIN.
12. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER ISOLATION VALVES.
13. CONTRACTOR SHALL PROVIDE WALL ACCESS COVERS TO ALL CLEANOUTS AND VALVES LOCATED WITHIN WALLS.
14. ALL WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES SHALL BE PROTECTED IN ACCORDANCE WITH VETERAN'S AFFAIRS STANDARDS.
15. ALL PIPES OR TUBING WHICH PASS THROUGH RATED AND NON-RATED WALLS, FLOORS AND FOUNDATION WALLS, SHALL PASS THROUGH A SCHEDULE 40 CARBON STEEL PIPE SLEEVE. SLEEVES WHICH PASS THROUGH MASONRY SHALL BE GALVANIZED COATED. ALL SLEEVES SHALL BE INSTALLED FLUSH ON BOTH SIDES OF WALL PENETRATION.  
NON-RATED WALLS: THE SLEEVE SHALL BE SIZED TO ALLOW FREE PASSAGE OF INSULATED AND NON-INSULATED PIPES AND TUBING.  
RATED WALLS: PIPES WHICH PASS THROUGH FIRE-RATED WALLS & FLOOR SHALL USE THE APPROPRIATE CODE APPROVED, TESTED AND INSTALLATION METHOD OF SEALING WHILE MAINTAINING THE INTEGRITY OF THE WALL'S FIRE RATINGS(S).  
EXTENSION WALLS & FOUNDATION: PIPES WHICH PASS THROUGH EXTENSION WALLS OR FOUNDATION WALLS SHALL BE SEALED AND MADE WEATHER-TIGHT.
16. INSULATE COLD AND HOT WATER PIPING PER THE PROJECT DOCUMENTS WITH FIRE RETARDANT VAPOR BARRIER JACKET. PIPE INSULATION SHALL BE SEALED WITH A FIRE RESISTIVE ADHESIVE.
17. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND COORDINATION OF INSPECTIONS OF THE ENTIRE POTABLE WATER, SANITARY SEWER AND VENT SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH THE VETERAN'S AFFAIRS STANDARDS AND THE INTERNATIONAL PLUMBING CODE.
18. ALL PIPING AND VALVES SHALL BE PROPERLY IDENTIFIED, LABELED AND TAGGED.
19. CONTRACTOR SHALL FLUSH AND DISINFECT THE ENTIRE POTABLE WATER SYSTEM. FLUSHING AND DISINFECTION OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE VETERAN'S AFFAIRS STANDARDS AND THE INTERNATIONAL PLUMBING CODE.
20. PROVIDE THREE (3) ELBOW SWING JOINTS FOR ALL DOMESTIC HOT WATER CONNECTIONS TO THE MAIN.
21. CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL EXPANSION/CONTRACTION COMPENSATION IN THE DOMESTIC HOT WATER AND RECIRCULATION SYSTEMS, LIMITING THE MAXIMUM MOVEMENT TO 1 1/2" OR LESS. ANCHORS & RESTRAINTS SHALL BE INSTALLED WHERE NECESSARY AND ADJACENT FIRE RATED WALLS AND FLOORS. ALL PIPES SHALL BE PROPERLY GUIDED INTO THE THERMAL EXPANSION LOOPS OR COMPENSATORS.

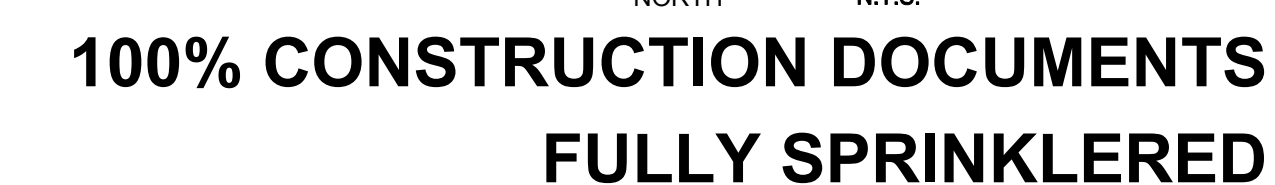
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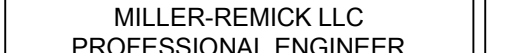




<div>NO.</div> <div>DESCRIPTION</div> <div>DATE</div>			<b>CONSULTANTS:</b> <div>MILLER-REMICK LLC PROFESSIONAL ENGINEER</div> <div></div>		<b>ARCHITECT / ENGINEERS:</b> <div><div><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-1000 FAX: (856)429-5002</div><div> Small Business Veteran Owned Service Disabled Veteran Owned Small Business</div><div><div><b>PF&amp;A</b> PF&amp;A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4205 www.pfa-architect.com</div></div></div>			<div>Drawing Title <b>PLUMBING GENERAL NOTES, SYMBOLS AND ABBRVIATIONS</b></div> <div>Approved: Medical Center Director</div>		<div>Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b></div> <div>Location <b>HUNTINGTON, WV</b></div> <div>Date <b>01-15-2016</b></div> <div>Checked <b>MP</b></div> <div>Drawn <b>PD</b></div>			<div>Project Number <b>581-13-101</b></div> <div>Building Number <b>1S</b></div> <div>Drawing Number <b>P0.01</b></div>		<div>Office of Construction and Facilities Management</div> <div><b>Department of Veterans Affairs</b></div>	
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1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES
2. REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

1 EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED



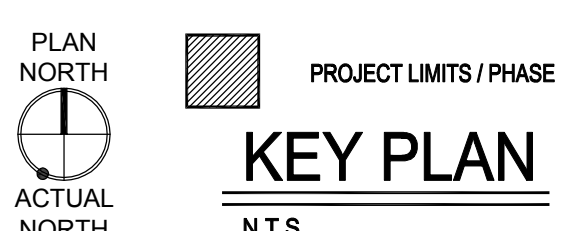
			CONSULTANTS:			<div>MILLER-REMICK LLC PROFESSIONAL ENGINEER</div> <div></div>			ARCHITECT / ENGINEERS:			<div><div><div>Miller-Remick LLC M E P &amp; S Structural Engineering A Service Disabled Veteran Owned Small Business 1110 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5052</div></div><div></div></div> <div><div></div><div>PF&amp;A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4205 www.pfa-architect.com</div></div>			<div>Drawing Title <b>PLUMBING PHASE 1A - 3RD FLOOR - DEMOLITION</b></div> <div>Approved: Medical Center Director</div>			<div>Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b></div> <div>Location HUNTINGTON, WV</div> <div><div>Date 01-15-2016</div><div>Checked MP</div><div>Drawn PD</div></div>			<div>Project Number <b>581-13-101</b></div> <div>Building Number <b>1S</b></div> <div>Drawing Number <b>P1A-PD1.01</b></div>			<div>Office of Construction and Facilities Management</div> <div> <b>Department of Veterans Affairs</b></div>
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4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

1	EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
2	EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
3	EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
4	EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.



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GENERAL SHEET NOTES:

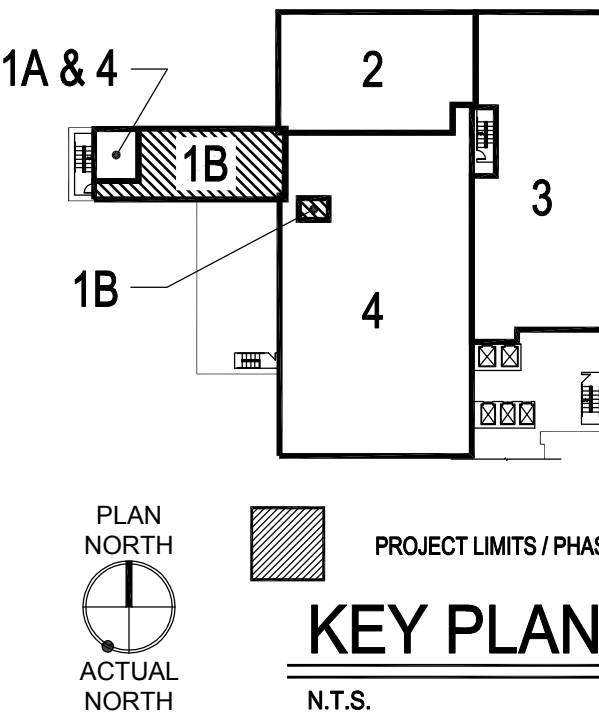
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- REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:

- 4" SAN DN & 2" VENT RISE.
- 4" SAN DROP & 2" VENT RISE.
- 1-1/2" SAN DROP & 1-1/2" VENT RISE.
- 2" SAN DN & 2" VENT RISE.
- 2" VENT RISE & DN.
- 1/2" DCW & 1/2" DHW DROP.
- 1-1/2" DCW DROP.
- 2" SAN DROP & 1-1/2" VENT RISE.
- 1-1/2" SAN DN & 1-1/2" VENT RISE.
- CAP FOR FUTURE PHASE EXTENSION.
- 1/2" DCW DROP TO FD FROM TP-2, REFER TO DETAIL 7/P4.01.

1 PHASE 1B - 3RD FLOOR PLAN - NEW WORK  
1/4" = 1'-0"

2 PHASE 1B - SURGICAL WASTE PLAN  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
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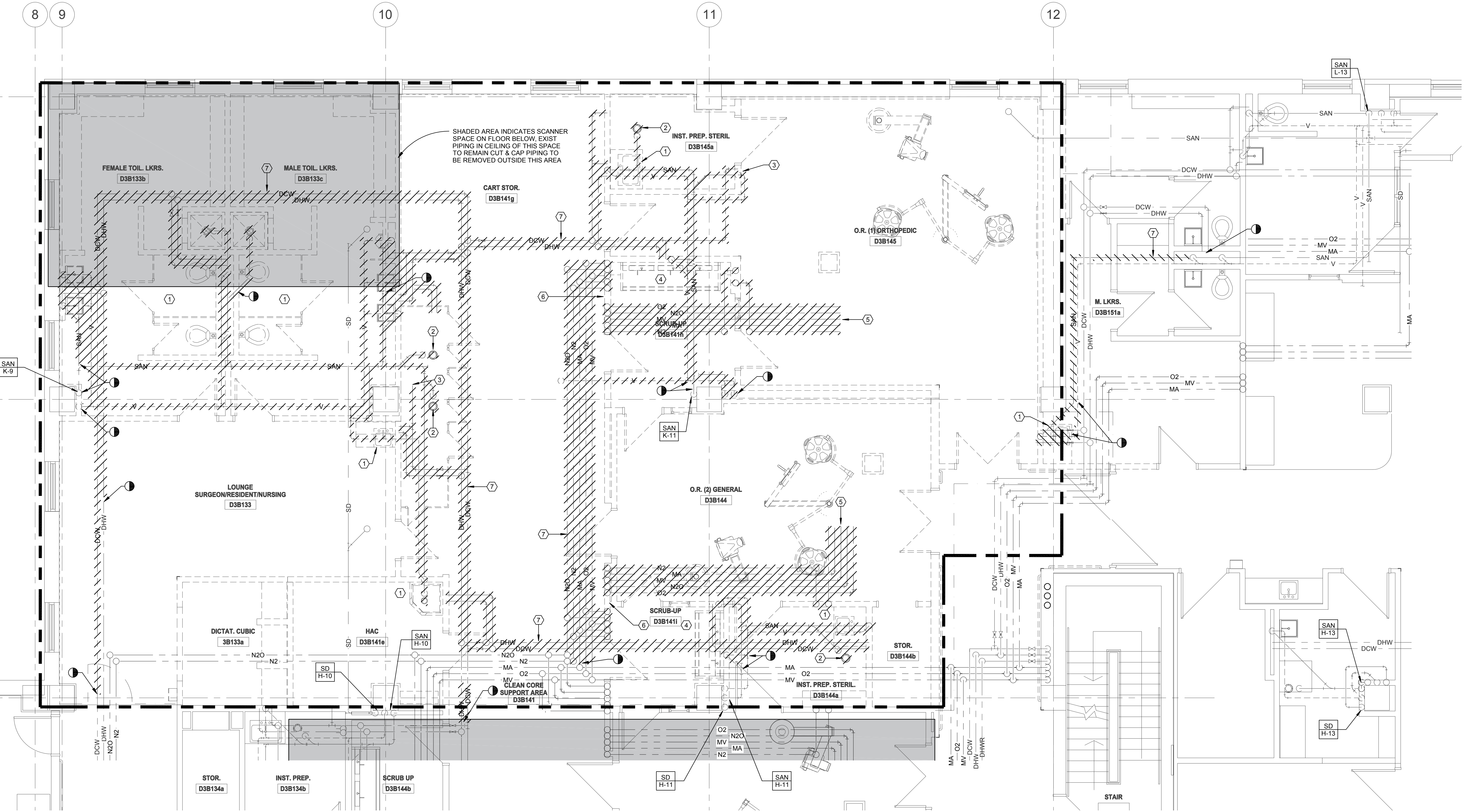


GENERAL SHEET NOTES:

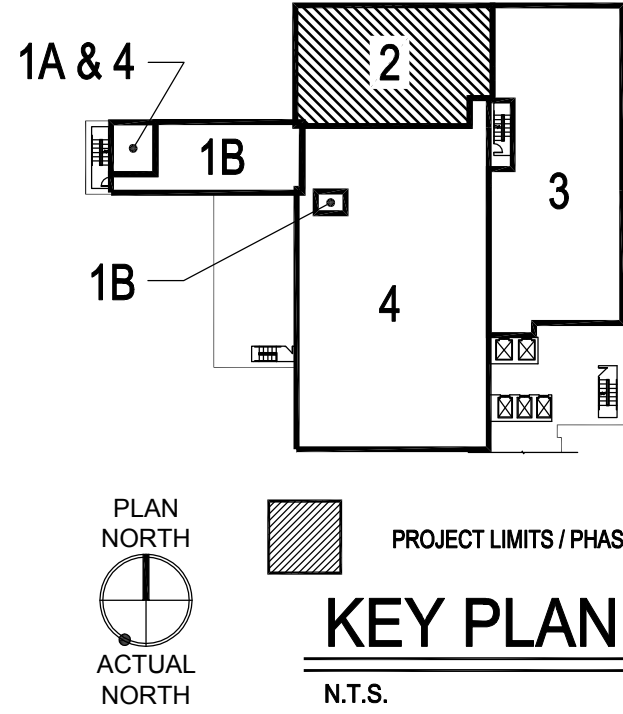
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2. REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS.
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:




1. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
2. EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
3. EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.
4. EXISTING SCRUB SINK TO BE REMOVED AND RELOCATED.
5. EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
6. EXISTING MEDICAL GAS ZONE VALVE PANEL ASSEMBLY TO BE REMOVED.
7. EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.



1 PHASE 2 - 3RD FLOOR PLAN - DEMO  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 2 - 3RD FLOOR - DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>					
						 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002			 <b>PF&amp;A</b> PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4005 <a href="http://www.pfs-architect.com">www.pfs-architect.com</a>			Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>						Building Number <b>1S</b>		
												Drawing Number <b>P2-PD1.01</b>											
NO. DESCRIPTION DATE												Date <b>01-15-2016</b>			Checked <b>MP</b>						Drawn <b>PD</b>		



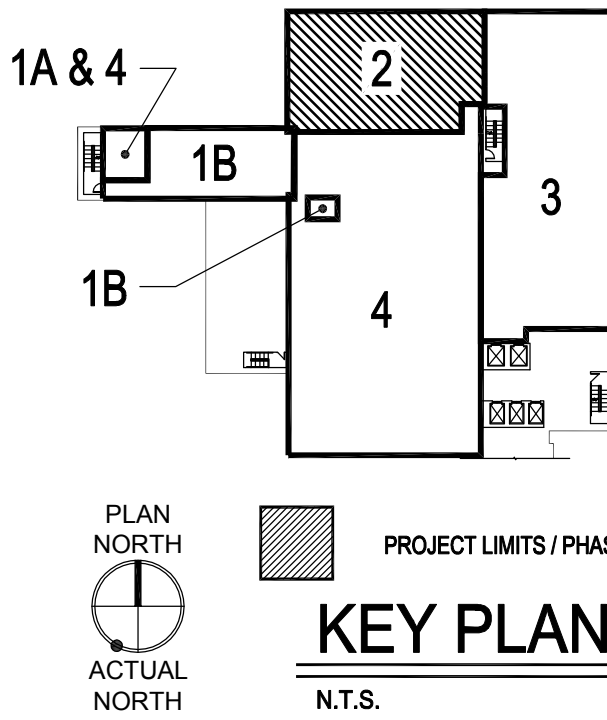
GENERAL SHEET NOTES:

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3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.


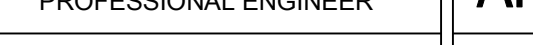
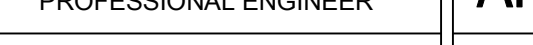

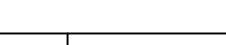
SHEET KEYNOTES:

1. 1/2" N2, 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
2. 1/2" N2, 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
3. 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
4. 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
5. CAP FOR FUTURE PHASE EXTENSION.
6. NOT USED.
7. 3/4" DCW & 3/4" DHW DROP.
8. (E) 4" SD UP TO RD.
9. 1/2" N2O, (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO ANESTHESIA COLUMN/BOOM.
10. (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO SURGICAL COLUMN/EQUIPMENT BOOM.
11. 2" SAN DN & 1-1/2" VENT RISE.
12. 1/2" N2 DROP TO PRESSURE CONTROL PANEL.
13. 3" OFFSET VENT STACK RISE & DN.
14. NOT USED.
15. NOT USED.
16. 3" VENT RISE & DN.
17. 3" VENT THRU ROOF.
18. NOT USED.
19. NOT USED.
20. ALL LABOR AND MATERIAL TO SUPPORT NEW AND RELOCATED SURGICAL EQUIPMENT BOOMS, LIGHT BOOMS, AND GAS COLUMNS, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SUPPLEMENTAL STRUCTURAL STEEL FRAMING AND SUPPORTS TO BE PROVIDED AND INSTALLED BY BOOM/COLUMN MANUFACTURER. TYPICAL FOR ROOMS 3B-135, 3B-136, 3B-137, 3B-138, 3B-141, 3B-143 (OR 3-1-6). REFER TO MANUFACTURER SUBMITTED DETAILS AND DRAWINGS. MANUFACTURER TO SUBMIT FRAMING PLANS AND CALCULATIONS, STAMPED BY A PROFESSIONAL ENGINEER, OF NEW AND RELOCATED EQUIPMENT SUPPORTS ATTACHED TO EXISTING OR NEW STRUCTURES, TO THE ENGINEER FOR REVIEW PRIOR TO STARTING THE WORK. CONTRACTOR TO COORDINATE WORK WITH ALL TRADES PRIOR TO STARTING THE WORK.

1 PHASE 2 - 3RD FLOOR PLAN - NEW WORK  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

			CONSULTANTS:			MILLER-REMICK LLC PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 2 - 3RD FLOOR - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>					
						 			 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)420-4000 FAX: (856)420-5002			 <b>PF&amp;A</b>  PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-0537 Fax: 757-471-4205  <a href="http://www.pfa-architect.com">www.pfa-architect.com</a>			Approved: Medical Center Director			Location HUNTINGTON, WV						Drawing Number <b>P2-PP1.01</b>		
												Date 01-15-2016			Checked MP			Drawn PD								
NO. DESCRIPTION DATE																										



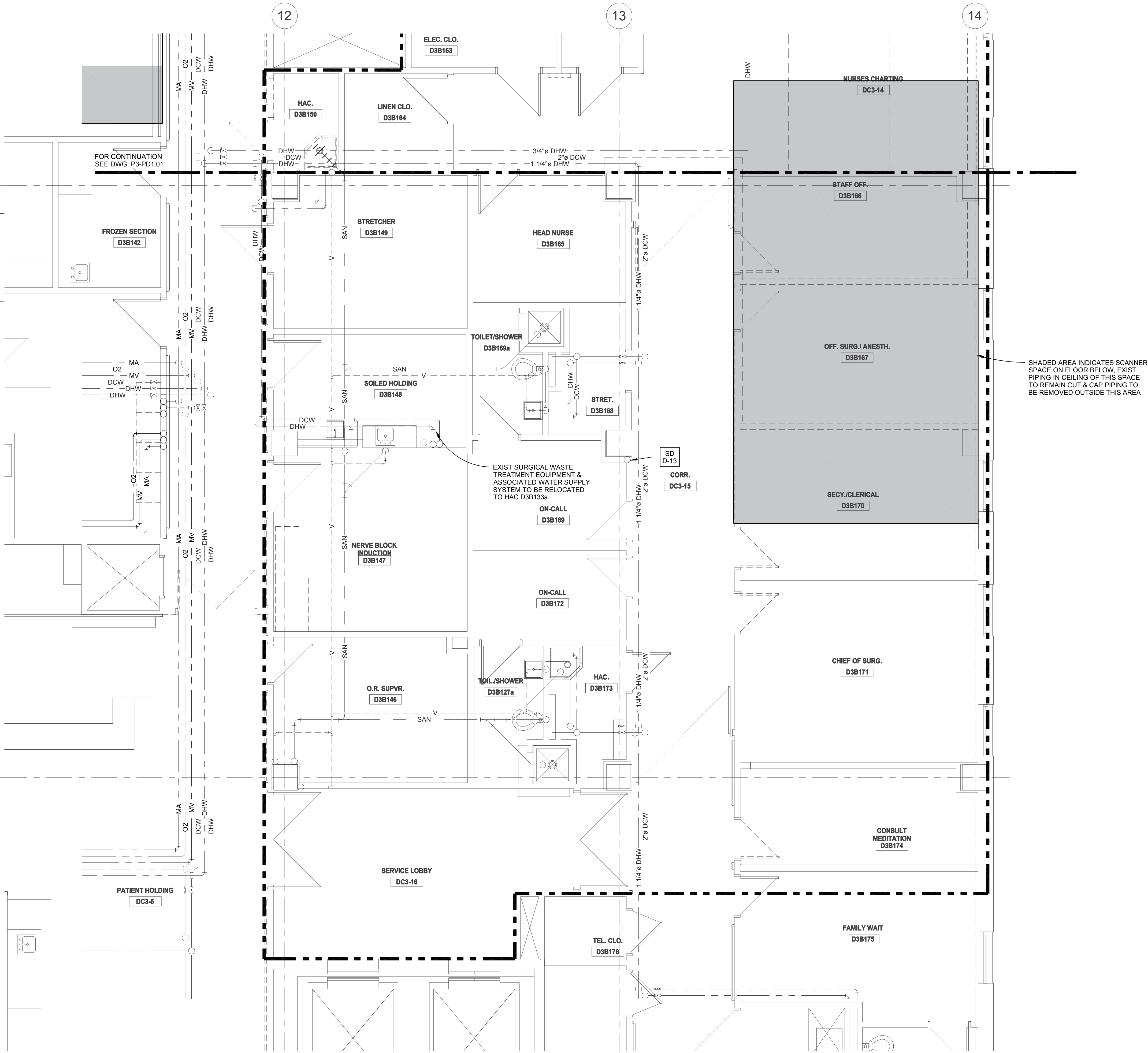
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2	EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
3	EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
4	EXISTING MEDICAL GAS PIPING TO PATIENT HEAD WALL UNIT TO BE REMOVED.
5	EXISTING OFFSET VENT, SANITARY AND STORM DRAIN RISERS TO BE RELOCATED.

VA FORM 08-6231

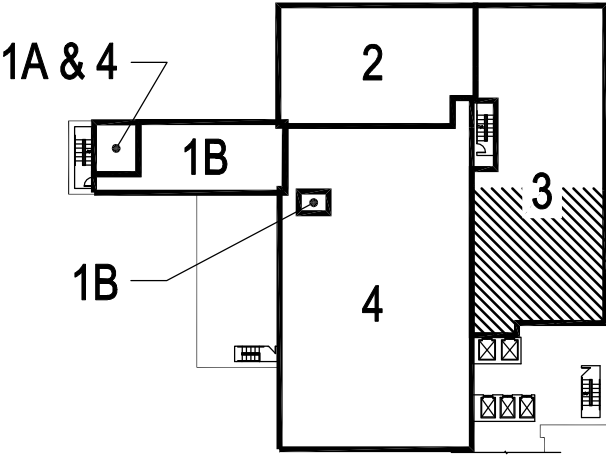


GENERAL SHEET NOTES:

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4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM


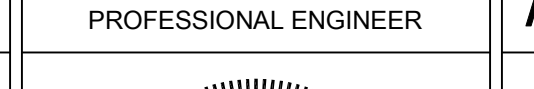





1 PHASE 3 - 3RD FLOOR PLAN AREA B - DEMO  
1/4" = 1'-0"

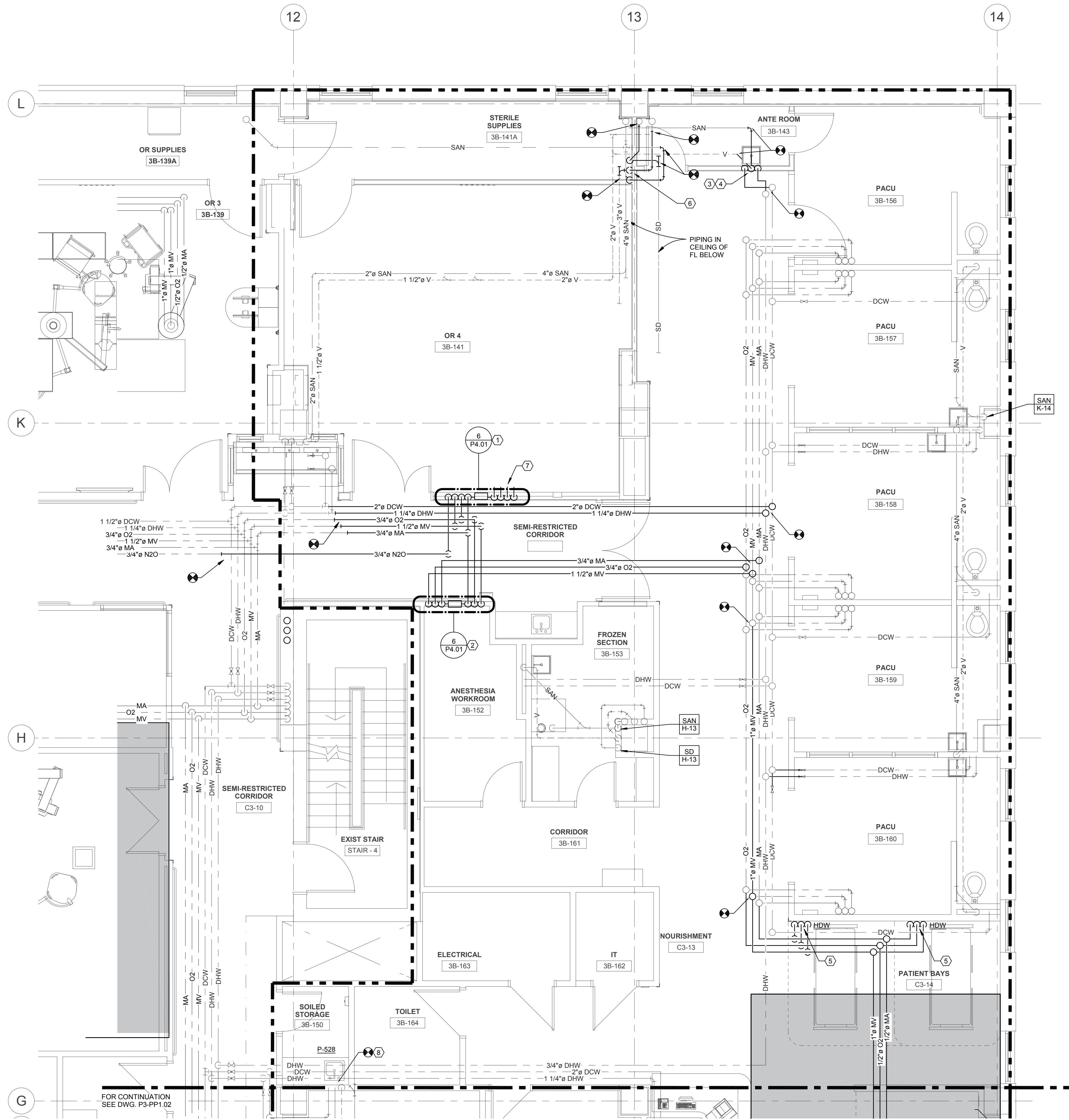


PROJECT LIMITS / PHASE  
**KEY PLAN**  
N.T.S.

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FULLY SPRINKLERED

			CONSULTANTS:			MILLER-REMICK LLC PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 3 - 3RD FLOOR AREA B DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>								
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4025 <a href="http://www.pfa-architect.com">www.pfa-architect.com</a>						Location HUNTINGTON, WV			Building Number 1S		
												Approved: Medical Center Director			Date 01-15-2016			Checked MP						Drawn PD			Drawing Number <b>P3-PD1.02</b>		
NO. DESCRIPTION DATE																													





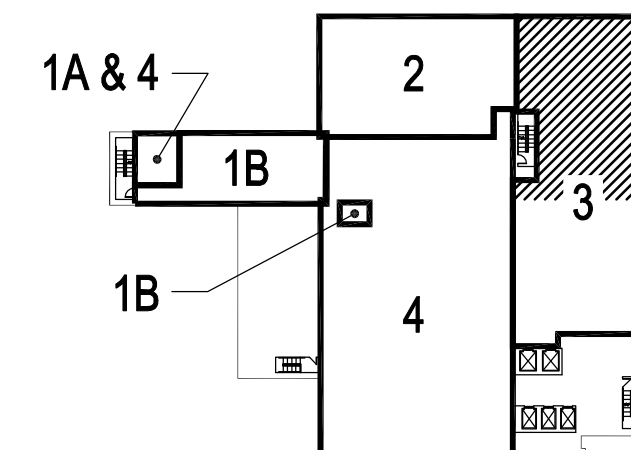
1 PHASE 3 - 3RD FLOOR PLAN AREA A - NEW WORK  
1/4" = 1'-0"

### GENERAL SHEET NOTES:

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2. REFER TO DRAWINGS P3.01 TO P3.04 FOR PLUMBING SYSTEM RISER DIAGRAMS.
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4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.


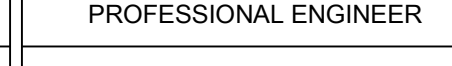


### SHEET KEYNOTES:

1. 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
2. 1-1/2" MV, 3/4" O2, & 3/4" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
3. 1-1/2" SAN DN & 1-1/2" VENT RISE.
4. 1/2" DCW & 1/2" DHW DROP.
5. 3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.
6. 4" SD, 3" VENT & 4" SAN RISE & DN (EXIST RISERS TO BE RELOCATED)
7. CAP FOR FUTURE PHASE EXTENSION.
8. CONNECT SINK DCW, DHW & SAN TO EXISTING PLUMBING FROM REMOVED SERVICE SINK.



PROJECT LIMITS / PHASE  
**KEY PLAN**  
N.T.S.

**100% CONSTRUCTION DOCUMENTS**  
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			<b>CONSULTANTS:</b>			<b>ARCHITECT / ENGINEERS:</b>			<b>Drawing Title</b> <b>PLUMBING</b> <b>PHASE 3 - 3RD FLOOR AREA A</b> <b>NEW WORK</b>			<b>Project Title</b> <b>RENOVATE SURGICAL</b> <b>SERVICE &amp; UPGRADE</b> <b>OPERATING ROOMS</b>			<b>Project Number</b> <b>581-13-101</b>			<div>Office of Construction and Facilities Management</div> <div> <b>Department of Veterans Affairs</b></div>					
						  			<b>Approved: Medical Center Director</b>			<b>Location</b> HUNTINGTON, WV			<b>Drawing Number</b> <b>P3-PP1.01</b>								
<table><tr><th>NO.</th><th>DESCRIPTION</th><th>DATE</th></tr></table>			NO.	DESCRIPTION	DATE				<p><b>Miller-Remick LLC</b> ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-6537 Fax: 757-471-6265 www.pfa-architect.com</p>						<table><tr><td><b>Date</b> 01-15-2016</td><td><b>Checked</b> MP</td><td><b>Drawn</b> PD</td></tr></table>						<b>Date</b> 01-15-2016	<b>Checked</b> MP	<b>Drawn</b> PD
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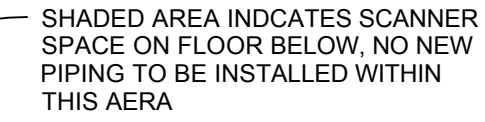


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4. REFER TO DRAWINGS P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

1 1-1/2" SAN DN & 1-1/2" VENT RISE.

2 1/2" DCW & 1/2" DHW DROP.

3 3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.



1 PHAS  
1/4" = 1'-0"

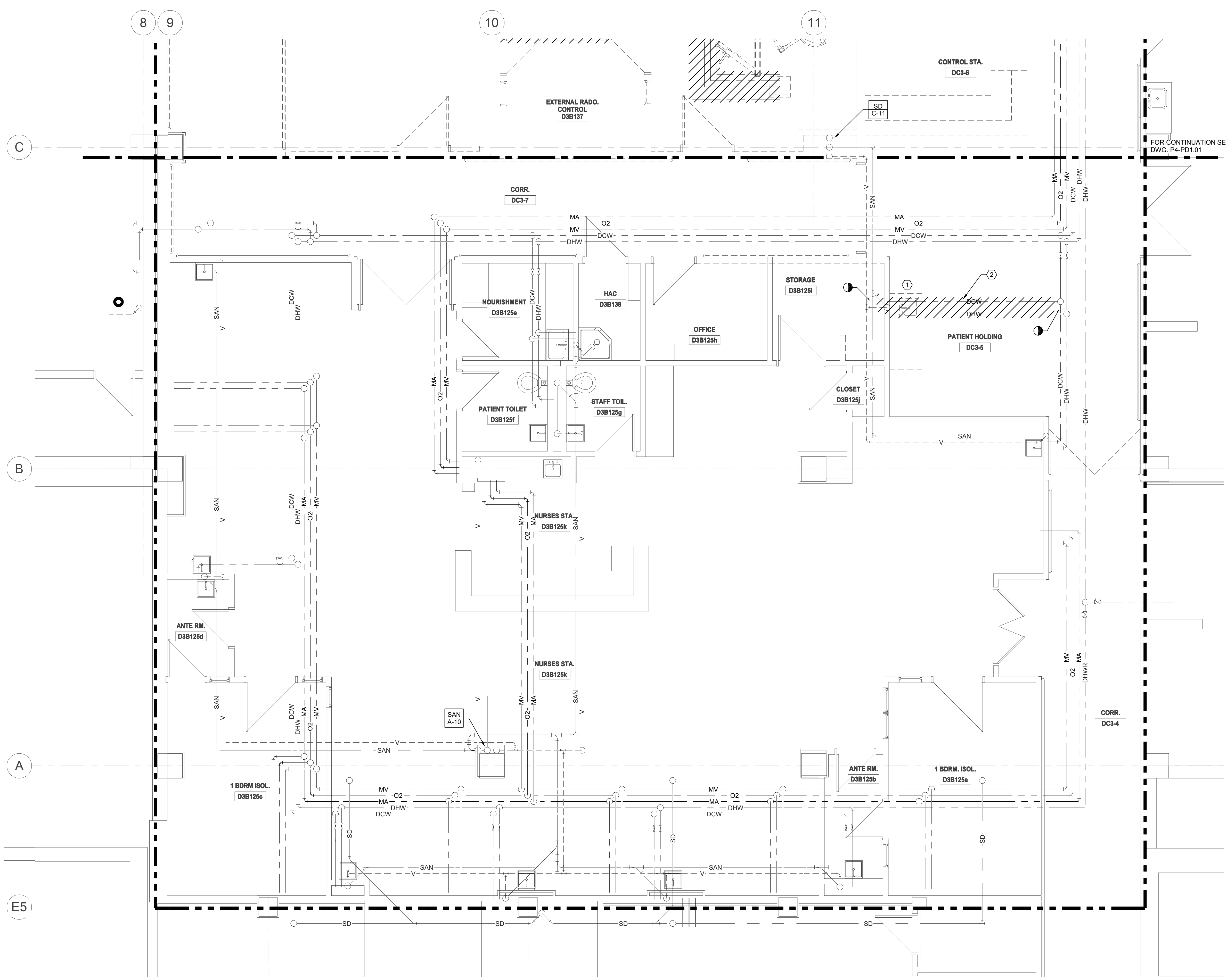


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FULLY SPRINKLERED**

VA FORM 08-6231

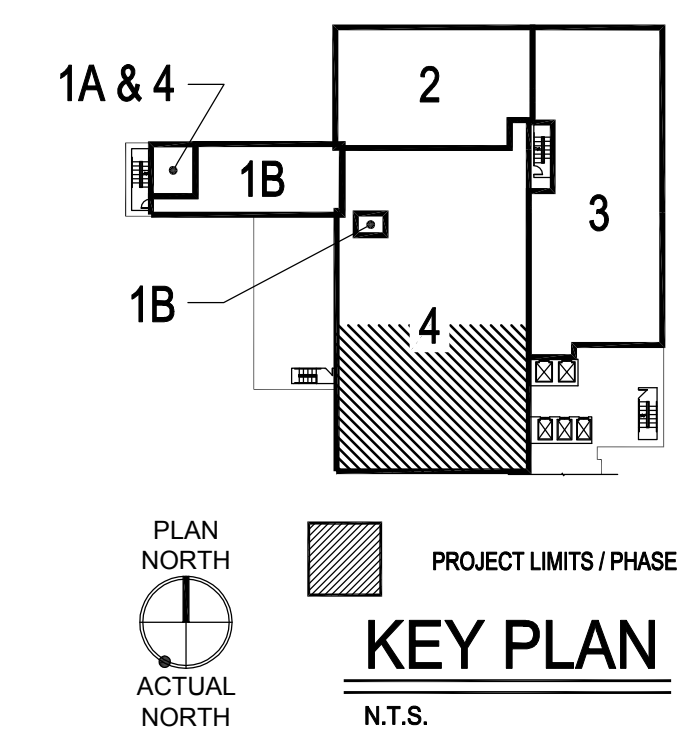


three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot  
one thirty-second inch = one foot  
one sixty-fourth inch = one foot  
one one-hundredth inch = one foot  
one two-hundredth inch = one foot  
one four-hundredth inch = one foot  
one eight-hundredth inch = one foot  
one one-thousandth inch = one foot  
one two-thousandth inch = one foot  
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one sixteen-thousandth inch = one foot  
one thirty-two-thousandth inch = one foot  
one sixty-four-thousandth inch = one foot  
one one-hundred-thousandth inch = one foot  
one two-hundred-thousandth inch = one foot  
one four-hundred-thousandth inch = one foot  
one eight-hundred-thousandth inch = one foot  
one millionth inch = one foot  
one ten-millionth inch = one foot  
one hundred-millionth inch = one foot  
one billionth inch = one foot  
one trillionth inch = one foot  
one quadrillionth inch = one foot  
one sextillionth inch = one foot  
one octillionth inch = one foot  
one nonillionth inch = one foot  
one decillionth inch = one foot  
one undecillionth inch = one foot  
one duodecillionth inch = one foot  
one tredecillionth inch = one foot  
one quattuordecillionth inch = one foot  
one quindecillionth inch = one foot  
one sexdecillionth inch = one foot  
one septendecillionth inch = one foot  
one octodecillionth inch = one foot  
one nonadecillionth inch = one foot  
one vigintillionth inch = one foot  
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one quadrivigintillionth inch = one foot  
one quinquavigintillionth inch = one foot  
one sexvigintillionth inch = one foot  
one septuovigintillionth inch = one foot  
one octovigintillionth inch = one foot  
one nonavigintillionth inch = one foot  
one centillionth inch = one foot  
one googolplex inch = one foot



1 PHASE 4 - 3RD FLOOR PLAN AREA B - DEMO - ALTERNATE 2  
1/4" = 1'-0"

- GENERAL SHEET NOTES:**
- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
  - REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS
  - REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
  - REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
  - REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM
- ALTERNATE NOTE**
- THIS SHEET HAS BEEN IDENTIFIED AS WORK TO BE INCLUDED AS A BID ALTERNATE. SEE SPECIFICATIONS AND INSTRUCTIONS TO BIDDERS FOR A DETAILED LISTING OF THE ASSOCIATED SCOPE OF WORK.
- SHEET KEYNOTES:**
- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
  - EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.



**100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED**

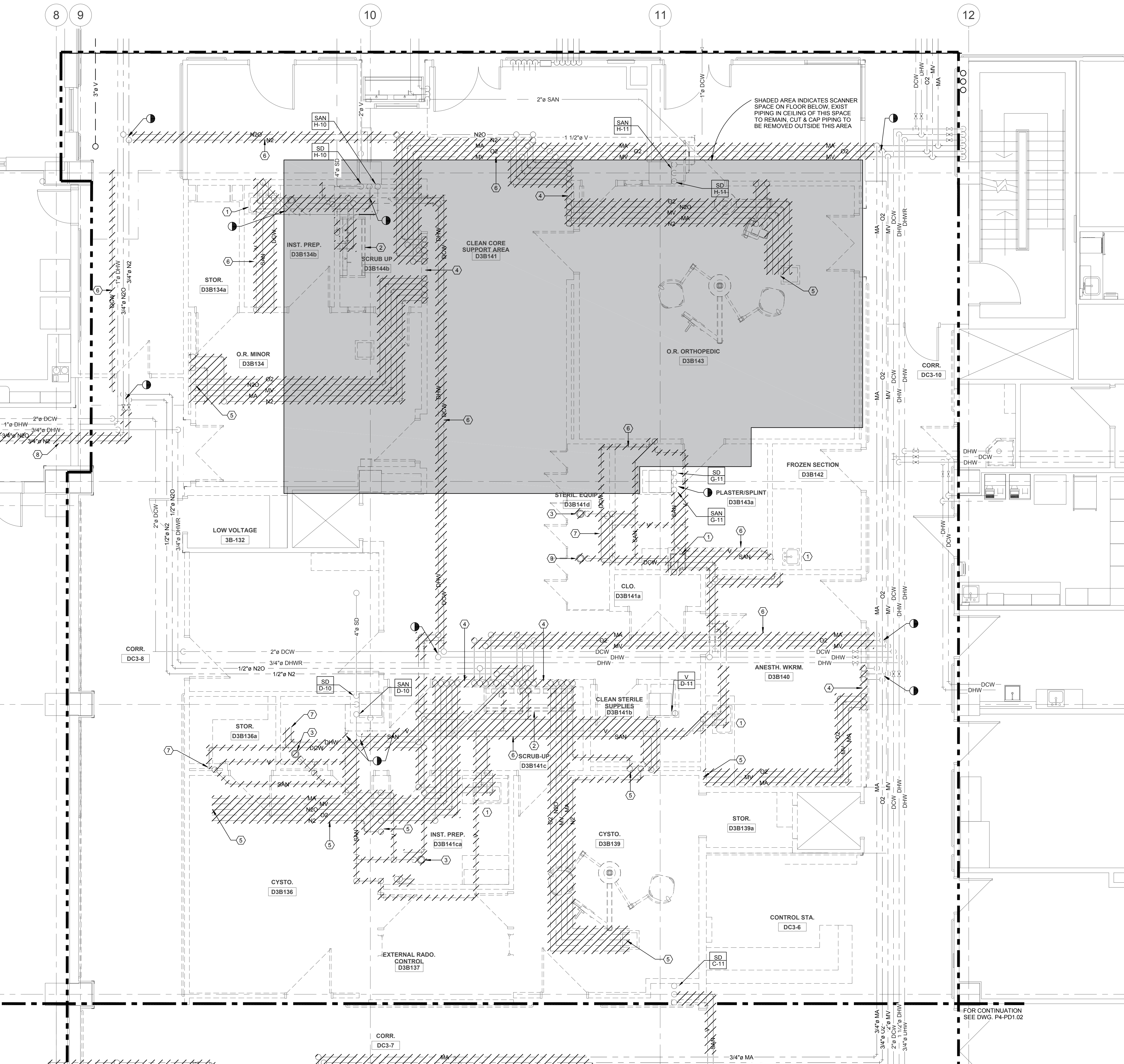



GENERAL SHEET NOTES:

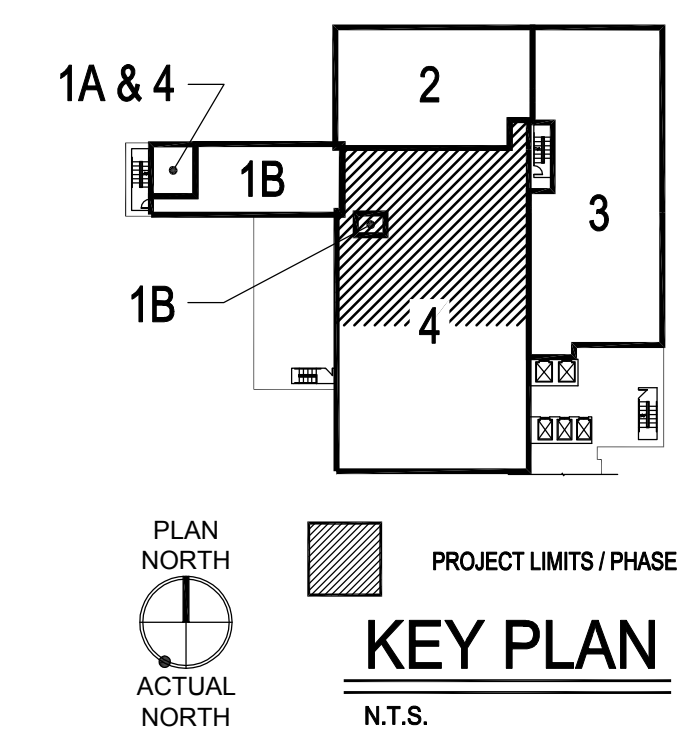
1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS.
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:

1. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
2. EXISTING SCRUB SINK TO BE REMOVED AND RELOCATED.
3. EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
4. EXISTING MEDICAL GAS ZONE VALVE PANEL ASSEMBLY TO BE REMOVED.
5. EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
6. EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
7. EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.
8. EXISTING TEMPORARY N2 AND N2O PIPING FROM CYLINDER MAINFOLDS TO BE REMOVED AFTER INSTALLATION OF NEW GAS MAINFOLDS.



1 PHASE 4 - 3RD FLOOR PLAN AREA A - DEMO  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

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